

Abstract:

A node within a network receives a data object and generates a generic container data type representation. Data in the received data object is mapped into one or more fundamental data items, such as integers, floats, and bytes, and then placed within the container data type representation. The container data type representation is assigned an annotation based on the contents within the container. The node determines whether a native data type representation corresponding to the container data type representation is available. If a native data type representation is available, the node transforms the data object into a native data type representation. The node then transmits the native data type representation to a component residing within the node. If a native data type representation is unavailable, the node transmits the container data type representation, or transmits the container data type representation and an incomplete native data type representation, to a component.